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ABSTRACT

The invention comprises several aspects which are each independently useful or which may be combined in a variety of combinations. One aspect of the invention is placing an atmospheric reference vent at or near the top of a rigid drip chamber for draining CSF from a patient. In the preferred embodiment, the vent is placed on the inside of the drip assembly, immediately next to the CSF. The vent, in another aspect of the invention, is made of a hydrophobic material. In the preferred embodiment, the hydrophilic material is expanded polytetrafluoroethylene (e-PTFE). In yet another aspect of the invention, the vent is made of a porous material having a pore size that allows air to readily pass through while preventing CSF from passing through. A preferred embodiment of this aspect includes making the vent of expanded polytetrafluoroethylene (e-PTFE) with a pore size ranging from about $0.22 \, \mu \text{m}$ to about $5.0 \, \mu \text{m}$ and more preferable a pore size of about $3 \, \mu \text{m}$. With this pore size, the vent also preferably has a surface area ranging from about $0.5 \, \text{cm}^2$ to about $5.0 \, \text{cm}^2$.